Consulting The Farmer **About Fertilizing Practices**

REPRESENTATIVE SOUTHERN FARMERS SELECTED BY COUNTY AGENTS, TELL WHAT THEY ARE DOING THROUGH THE USE OF FERTILIZERS-VALUABLE DATA OF PRACTICAL SORT

By J. N. Harper, Director, Soil Improvement Committee, Atlanta, Ga.

What do the farmers themselves say those reporting from the Coastal Plains no one is more qualified to speak as to their value than they. This question has been asked of a great many farmers in the Southeast, and their answers are most enlightening.

The writer obtained through the County Demonstration Agents the names of more than a thousand of the most representative farmers living in the states of North Carolina, Bouth Carolina and Georgia. To these were sent a questionnaire asking for information as to the yields obtained from cotton and corn, and the formula and amount of fertilizer used. They vere also asked to give the soil type. Several hundred answers were received and these have been carefully clasbified according to crop yields. Results on Cotton Yields.

Grouping the reports of the farmers from the Coastal Plain Region, the following results were shown:

N	Average Y	file			Avar	nge A	
1	Lint Cott					ertill	
į	Per Acre	EP:			Used	Per A	cr
1	166 Lbs				.300	Lbs.	
i	250 Lbs	5 4		1	. 275	Lbs.	
ï	375 Lbs	ee o			.518	Lbs.	
	500 Lbs				.645	Lbs.	
8	625 Lbs				.780	Lbs.	
	750 Lbs				.840	Lbs.	
	1,000 Lbs			٧.	.950	Lbs.	
1	The avera						

used was 8.6 per cent phosphoric acid. 8.2 per cent nitrogen, and 8.2 per cent

Grouping the reports of the farmers of the Piedmont Region according to the yields obtained, the following facts

Bero one	89.14.7						
Average	Yiele	d		A	ver	age	Amt.
Lint	Cotton	6		0	I V	ertil	izer
Per	Acre.			UB	ed	Per.	Acre.
320	Lbs.			.200	to	300	Lbs.
385	Lbs.			.400	to	500	Lbs.
438	Lbs.			.600	to	700	Lbs.
540	Lbs.			.800	Lb	5.	

seld, 2.65 per cent nitrogen, and 2.11

from 40 to 100 lb Results On Corn Yields.

COMMERCIAL FERTILIZERS.

Wisely Used They Are Protitable, Other-

wise It Is Money Wasted.

about the use of fertilizers? Certainly Region was 36.3 bushels per acre and the average amount of fertilizer used was 444 pounds.

The average formula of this fertilizer was 8.4 per cent phosphoric acid,

After classifying the reports according to yields, the following results

were obtained:	
Average Yield	Average Am
Of Corn	Of Fertilizer
Per Acre.	Used Per Acr
20 Bushels	310 Lbs.
25 Bushels	355 Lbs.
30 Bushels	404 Lbs.
35 Bushels	450 Lbs.
40 Bushels	469 Lbs.
45 Bushels	566 Lbs.
The reports from the	e Piedmont Be

tion showed the average yield from all eporting as 33.2 bushels of corn per acre with the average amount of fer. make a little light tonight. tilizer 330 pounds.

iven as used prior to the World War. Classifying the reports into groups according to yields, the following reults are shown;

Average Yield	Average Amt
Of Corn	Of Fertilizer
Per Acre.	Used Per Acre
15 Bushels	183 Lbs.
25 Bushels, ,	281 Lbs.
	850 Lbs.
45 Bushels	

The above results from the farmers iment stations, and these figures show that as the use of fertilizers is increased, so is agricultural production

Many thousands of acres of land in the Coastal Plains of the South, when first cleared, did not produce more The fertilizer formula for cotton than 10 bushels of corn per acre. Toased on the sandy clay loams of this day, they are producing from 40 to 80 region averaged 8.6 per cent phosphoric bushels, by the liberal use of fertilizers. three eggs from a French lady and

creased to meet the constantly grow-Quite a number of farmers in both ing demand for foodstuffs and other regions reported the use of nitrate of agricultural products. The most ecooda as a side application in addition nomical way to produce crops is by to the fertilizer. The quantity used increasing the acre yield, and there are but two ways of doing this--by better cultural methods and by the more lib-The average yield of corn from all eral use of plant food.

potash, especially when planted to cot- pretty good, then came to Germany, ton or tobacco. West and north of now will have to begin anew. this line, we do not recommend the use "I heard from Kate lately, also of potash, except possibly on some Bessie, Alice and mother. fruits and on deep sandy lands where "I saw Adas Verble not long ago, cotton tends to rust. If you do not he was well. It seems good to see an live in the territory needing potash, it old friend, will pay you to leave it out entirely in

buying fertilizers. For the man who studies his soil and tell the children hello for me. and crop needs and then knows what Hoping to see and hear from you he is buying, fertilizers will pay well agian. this year. In fact, under such condi tions we advise that they be used liberally .- The Progressive Farmer.

LETTER FROM FRANCE.

3.1 per cent nitrogen, and 2.6 per cent Jeff Lyles and Volney Burnett Write to Sister and Mother.

> Following is a letter received from Volney Burnett, who is now in France. Mr. Burnett will be remembered by many people in this county as having been a high school student. His folks are now living in Idaho and he was drafted from there. The letter fol-

"Lanty, France, December, 1 1918, "Mr. and Mr O. P. Burnett, Buhl

"Dear Father and Mother; Will write you again as we have a candle to

"Haevn't been doing very much to-The formula averaged 8.7 per cent day and wont have much temotrow, hosphoric acid, 2.5 per cent nitrogen, except have mapection. That doesn't and 1.9 per cent potash. The formula last very long but it takes quite a little eported for both cotton and corn was bit of subbing and cleaning on our guns and clotnes. It's so rainy one muddy we can't keep our clotnes looking very well especially our shoes and our leggins.

"Got two letters from you a few days ago and was mighty glad to hear July has been 400,000 tons per month, from you. Hadn't had any mail for a a total of 1,600,000 for the quarter in 8 and 16 ource jars, having double long time.

"I have written you lots of letters since I changed my address to Co. B. 307th Inf. Doesnt' seem like you get themselves strikingly coincide with the any of them. Sometimes it's mighty results obtained at the southern exper- hard for us to get hold of writing

"Pearl said that Virgil Ford died over here with the pneumonia That's to bad. The weather is erough to give anyone pneumonia wthout they "Dad is making more money can I are mighty stout.

am if he gets \$6 per day. I bought Crop yields must be greatly in- took them in the next door and had the n fried and got a piece of bread. So you see I had quite a feed yesterday for supper.

"You were asking me if I wanted ny money. Would rather have something to huy. Had a pay day this week. Have had three pay days since I have been over here. Have about \$80 in this awful French money. Don't look good to me. Would like to see an American twenty and see if I could

recognize it. "Haven t received any papers yet. phosphoric scid is the element most There is so much mail and it is so far. "Gladys wrote me about Cornell be-The answer to the question as to needed practically everywhere from ing wounded. But didn't seem to know whether we should use commercial Virginia to Texas, except on the time how bad. Herman Campbell is fertilizers wholly depends upon the soils of the Mississippi Delta regions wounded. I haven't seen a single boy

"Conties are beginning to bite so I

With love. V spey U. Burnett.

The following letter was received a short time ago by Mrs. E. W. Grissom, sister of the writer, Jeff Lyles. Mr. Lyles being known to many in this county, his letter will prove of real interest:

"Field Hospital No. 3, A. E. F., 'Somewhere in Germany, Dec. 21, '18, "Dear Sister: Your letter of Oct. 23rd reached me today and was certainly glad to hear from you and to know you and the rest are well.

"This leaves me well and in good health. "I expect to be sailing for the States

soon.

and that Dad had put in the paper; it was real good, also read one written short notice. by a White Co. boy, England, he has-France and Germany, then he would LUNCHES have to get used to something, he would have to get used to different and hot meals while

LOUISVILLE, KY.

Roosevelt day was observed in several of the churches here Sunday.

If you want to sell or buy a farm, ren Junn Q. Wantt, Crossville, Tenn., Phone 7, Box 96, 11-27-17t.

"I hear that R. L. is in England,

With love to all,

SUGAR SHOWED

Luxury Demonstrated Na-

tion's War Conscience.

By Reducing Consumption People of

the United States Averted a

Famine at Home In Spite

of Low Supplies.

The fact that the people of the

United States were able to reduce by

more than one-half million tons their

consumption of sugar proves conclu-

Administration this country would

have been in the throes of a sugar

sugar would no longer be a mere lux-

Few accomplishments of the Food

Administration will stand forth so pre-

until the new beet and Louisiana cane

far afield, can maintain its recent re-

ury in the American diet.

sugar crops were in sight.

fell to 230,000 tons.

Mech. Jeff L. Lyles.

Ensign Alva S. Potter arrived home Saturday from Norfolk, Va., on a furlorgh of ten days. His numerous friends are glad to have him home for Well give every body my regards, even that short stay.

> Straight salary of \$35.00 per week for man or woman with rig to intro duce Eureka Poultry Mixture. Six months c ntract. Eureka Mfg. Co., East St. Louis, Ilt.

WANTED-Six good tie makerss. Good timber, good prices. Pay every Sat. See James D. Brown on the Dug Burnett farm. 2-6-ti.

Wanted-a woman to do general **OUR BACKBONE** housework for small family. Will pay good wages. Call or address John Wightman, Pleasant Hill. There will be a pie supper Saturday

night, Feb. 22nd, at Hales Chapel, American Willingness to Give Up proceeds to go Rev. Couble, For drilling wells see or write J. H.

Graham, Crossville, Tenn. 6-6-tf.

I have at last found a good man to do watch and jewelry repair work and WITH THE ALLIES, can now handle any work that may be offered. Prices are higher than formerly, out that is expected. I must pay for all work done by the first of the month and for that reason boust require a depo it when the work is

> finished work in a storter time than ever before. S. C. Bishop. Lieut, Carl Brightweiter, of Chattancoga, was a guist as the Albertson

left. When you got the hnished work

everything will be made right. We

feel that we will be atl to turnish the

home last week. July, August, September and October Miss Winifred Losho ugh was home sively that their war conseience was from her templing work it Livingston thoroughly awakened and that the for the week-em.

country as a whole stood ready to fol-Miss Beryl Loshbough arrived from low the injunctions of the Government. Michigan last week. She has had in-Our normal consumption of sugar in fluenza and came home for a rest of the four-month period beginning with several weeks.

> At the Chronicle office library paste water well and brush.

In July, when our sugar stringency Leonard Potter has recently received began to reach its height, consumption a letter from his son, Lincoln Potter, was reduced to 260,000 tons. In Auwho has been with the colors overseas gust only 325,000 tons went into dis- for over a year. The young man is tribution and in September only 279,- now a part of the American guard on 000 tons. In October the distribution the Rhine. He says it is a fine country, but has that longing for home that is common with all our boys over If the general public had failed to there. observe the injunctions of the Food

Library paste at the Chronicle office.

famine before the end of August. Our red heifer, will be fresh about April 1, visible supplies were so low as to bring bred to Noah Hyder's red poll bull; great anxiety to those familiar with animal fat enough for beet now. Also the sugar situation. They feared that one heifer calf, year old in March, in it would be absolutely impossible to good fix. Call and see them. S.C. reduce consumption to a point where Bishop. Sunday afternoon Rev. (). B. Rector

said the words that made Miss Corda Hamby, daughter of Deck Hamby, and Mr. Kay Farmer, husband and wife. dominantly as this reduced consumption of sugar. By it we have been able to bridge over the period of stripspers.

The ceremony as aid in the T. M. Rector restaurant. The young people are from the Hebbertsburg neighborto bridge over the period of stringency head and are highly respected. WANTED-at the Chronicle office:

A lot of clean, cotton rags in large New the nation is in a position so that if we choose we may return to sized pieces; no very small pieces or our normal home use of sugar, and strings can be used. We will pay Europe, with the release of ships to go that is necessary is tor them to be reasonably clean and in pieces large stricted rations. If, however, those enough for wiping machinery, as that nations are to increase their use of is what we use them for. Will buy aisugar very considerably it must be by most any quantity.

A letter from B. D. Lemert, Harrisburg, Mo., states that he is engaged in general farming. He also handles a few sheep and hogs and incidentally will put upon the market a high grade of maple syrup with the coming of

We I arn that Carp. Nathan Lemert opes to arrive in the United Stafrom France about March 1.

No pen surpasses the WATERMAN, to these loyal workers. In so doing soid at the Chronicle office. It you never used a WATERMAN it is likely no refusered by foundampea is. They are all guaranteed.

J. W. Laminack has recently received a letter from his son, John D. Laminack, who is with the colors in France. The young man is well and is working in the postoffice and express depart ent of the army. Lake most of our boys he is now anxious to get home since the struggle is over and peace assured.

Rev. G. S. Butler was over from Pleasant Hill Sunday and presented in the Congregational church. kev. Butler will leave next weak to take up the pasteral work for the Congregational to launch a movement looking to the building of a \$3,000 parsonage there. For some years Dr. Butler has been on in several positions to which he was chosen by the board.

Mr. and Mrs. C. B. Hayes were gladdened Monday by the arri al of a new baby boy. Mrs. Hayes has been here from Nashville visiting her parents, Mr. and Mrs. G. A Haley, for some

Miss Alice Jernigan, wro has been teaching at Ozone, has returned home, her school having closed last week.

J. E. Rich was here during court, from Marion county, where he is run-ning a sawmill and lumber business thirty miles from Chattanooga. Crane's stationery by the quire and

"Y" HUTS IN FOREST.

our continued sharing with them

through limiting our own consump-

In the pine forests of Alabama, Georgia, Tennessee and other states of the Southeast, where men are hewing wood to be used in the war program, the Y. M. C. A. is locating huts and tents so that they may be of service the "Y" is building up the morale of the men who are alding the shipbuild ing program

CARD OF THANKS.

We hereby extend our most sincere and heartfelt thanks to those kind friance and rese bors who assisted us during the sickness and death of our dear mother. Mr. and Mrs. O. B. Pemberton.

I handle fresh and salt church at Demorest, Ga. He expects meats and vegetables "Read the letter, Jesse wrote home and can furnish you on bemorest and has none excellent work

guage. I got so I could speak French you wait—the "wait" will be short and the eats long. Our soup is extra fine.

F. A. LOSHBOUGH envelopes by the bunch at the Chronicle office. Nothing made better than Crane's.

wers. WHERE NITROGEN IS NEEDED Roughly, the nearer we are to the

In est a territor, the great prote-

Gulf and Atlantic masts, the greater the need for vitrogen. In fact, over practically all the sandy loam soils of the Atlantic and Gulf Coastal plains, tattr gen is the great plant need. On such I nds, application of nitrogen for Buch creps as cotton, corn and oats will osually pay well. Fifteen pounds of nitrogen, per acre, or the equivalent mail. You will never find them on of that found in 50 pounds or a 10-2-2 Certilizer, 250 pourds of cotton-sied meal, or 100 pounds of nitrate of soda. will usually give excellent results on any of the average thin lards of this section, and there is evidence that considerably heavier spolications of nitrogen may be profitably made. Farther inland, on the Pieumont, montain or other clay or loam s ils, the need for di trogen is not as a rule so acute, though there are many areas where the use of commercial netrogen is highly profitable. This is particularly

true of thin lands and those that have long been in cultivation.

WHERE PHOSPHORUS IS NEEDED

Next to nitrogen, phosphorus or needed by Southern soils. In fact it is asswer to another question: Do they and the Black Belt areas of Alabama, over here that I knew back home ex pay? That they on pay and pay w !! Mississippi and Texas. It is particu- cept the boys that I knew in camp. when rightly used is abundantly p oved larly valuable on lands that tend to The last time our company was filled by experiment station evidence. Un aske too much stalk or lest growth up we got several Tennessee boys.

the other hand, there is also much evi- and too little fruit. Forty to 50 dence that Stateers f rmers eve y sounds per acre, or the equivalent of will have to scratch awhile. I'm all year waste millions of dollars through 250 to 300 pounds of 16 per cent acid OK except a bad cold. Hope you are the unwise use of commercial terrili- phosphate, is usually the most profits. both well. ble amount use.

WHERE POTASH IS NURBER.

1em is to fit the to our soil and crep We believe that Southern tarmers needs. Soils very greatly in their have wasted more money on potash Composition and hence in their fertili- than on any other plant food element. mer requirement , and different crops Draw a line, oughly, from about Mo-Likewise require pl nt foods in varying bile, Ala., northeastward through Maproportions. Here let us lay down con, Ga., Columbia, S. C., and R lsome basic principles that will help eigh, N C., and the soils to the east goide us in buying and using fertili- and south of this line, as a role, need

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